

CLAIMS

1. A belt type continuously variable transmission in which a pulley shaft (SP, SS) is supported by bearings (31, 32; 33, 34) provided at two positions that are apart from each other in an axial direction of the pulley shaft (SP, SS) and a supply oil passage for supplying hydraulic fluid to a pulley hydraulic chamber (40B, 45B) includes a radial direction oil passage (SPB, SSB) that is formed in the pulley shaft (SP, SS) in a radial direction of the pulley shaft (SP, SS), characterized in that

the radial direction oil passage (SPB, SSB) is formed on an outside of an area between the two positions which are apart from each other and at which the bearings (31, 32; 33, 34) are provided.

2. The belt type continuously variable transmission according to claim 1, characterized in that

one of the bearings (32, 33) is provided near the radial direction oil passage (SPB, SSB) and on an outer surface side of a cylinder member (70, 90) whose inner surface side forms the pulley hydraulic chamber (40A, 40B; 45A, 45B) for a movable sheave (38, 43) that is attached to the pulley shaft (SP, SS) so as to be fixed with respect to the pulley shaft (SP, SS) in a rotational direction of the pulley shaft (SP, SS) and so as to be slidable in the axial direction of the pulley shaft (SP, SS).

3. The belt type continuously variable transmission according to claim 1 or 2, characterized in that

the radial direction oil passage (SPB, SSB) is located on an outer side of a spline portion (SPG, SSG), which is formed in the pulley shaft (SP, SS), in the axial direction of the pulley shaft (SP, SS).

4. The belt type continuously variable transmission according to claim 3, characterized in that

the spline portion (SPG, SSG) formed in the pulley shaft (SP, SS) is engaged with a spline portion (38S, 43S) formed in the movable sheave (38, 43) on an inner surface side.

5. The belt type continuously variable transmission according to any one of claims 2 through 4, characterized in that

the pulley hydraulic chamber includes a first hydraulic chamber (40A), and the first hydraulic chamber (40A) is a space formed by a back surface of the movable sheave (38) and the cylinder member (70) which faces the movable sheave (38) in the axial direction of the pulley shaft (SP).

6. The belt type continuously variable transmission according to claim 5, characterized in that

the pulley hydraulic chamber includes a second hydraulic chamber (40B), and the second hydraulic chamber (40B) is a space formed by an end surface of an inner cylindrical portion (38A) of the movable sheave (38) and the cylinder member (70).

7. The belt type continuously variable transmission according to claim 5, characterized in that

the cylinder member (70) includes a first radial direction portion (70A) which extends in the radial direction of the pulley shaft (SP); a first cylindrical portion (70B) which extends from the first radial direction portion (70A) so as to be parallel with an axis line of the pulley shaft (SP); a second radial direction portion (70C) which extends from the first cylindrical portion (70B) along the back surface of the movable sheave (38) in the radial direction of the pulley shaft (SP); and a second cylindrical portion (70D) which extends from the second radial direction portion (70C) so as to be parallel with the axis line of the pulley shaft (SP).

8. The belt type continuously variable transmission according to any one of claims 2 through 4, characterized in that

the pulley hydraulic chamber includes a first hydraulic chamber (45A), and the first hydraulic chamber (45A) is a space formed by a ring-shaped member (75) which is fixed to a back surface of the movable sheave (43), an inner cylindrical portion (43A) of the movable sheave (43), and the cylinder member (90) which faces the movable sheave (43) in the axial direction of the pulley shaft (SS).

9. The belt type continuously variable transmission according to claim 8, characterized in that

the pulley hydraulic chamber includes a second hydraulic chamber (45B), and the second hydraulic chamber (45B) is a space formed by an end surface of the inner

cylindrical portion (43A) of the movable sheave (43) and the cylinder member (90).

10. The belt type continuously variable transmission according to claim 8, characterized in that

the cylinder member (90) includes a first radial direction portion (90A) which extends in the radial direction of the pulley shaft (SS); a first cylindrical portion (90B) which extends from the first radial direction portion (90A) so as to be parallel with an axis line of the pulley shaft (SS); a second radial direction portion (90C) which extends from the first cylindrical portion (90B) in the radial direction of the pulley shaft (SS) along the back surface of the movable sheave (43); and a second cylindrical portion (90D) which extends from the second radial direction portion (90C) so as to be parallel with the axis line of the pulley shaft (SS).